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- Marchantia polymorpha*, L. Nanaimo, B. C., Mountains near Juneau.
Metzgeria hamata, Lindb. Gold Creek, near Juneau. Not found since Sullivant distributed it from the Lower Alleghanies in 1845.
Metzgeria pubescens, Raddi. Gold Creek, near Juneau.
Pellia epiphylla, Nees. Sitka, Salmon Creek; new to Alaska.
Porella platyphylla, Sheep Creek, near Juneau.
Preissia hemisphærica, Cogn. Mountains near Juneau.
Scapania nemorosa, Nees. Gold Creek, near Juneau, Sitka.

LIST OF MOSSES AND LICHENS.

By CLARA E. CUMMINGS.

MOSSES.

- Dicranoweisia crispula*, Lindb. Above the Basin, Juneau.
Dicranella crispa, Schimp. Juneau.
Dicranella heteromalla, Schimp. Juneau, and at Gold Creek Cañon, near Juneau.
Dicranum fuscescens, Turn. Sitka.
Dicranum scoparium, Hedw. Loring, also at Salmon Creek, near Juneau.
Dicranum majus, Turn. Sitka.
Caratodon purpureus, Brid. Juneau; also at Salmon Creek and Gold Creek Cañon, near Juneau, and at Nanaimo, B. C.
Blindia acuta, Br. and Schimp. Juneau 3,000 ft.; also at Salmon Creek and Gold Creek Cañon, near Juneau.
Grimmia Californica, Sulliv. Above the Basin, Juneau.
Racomitrium aciculare, Brid. Juneau, and at Gold Creek Cañon, near Juneau.
Racomitrium canescens Brid. Near the snow line, above the Basin, Juneau; also Davidson Glacier, Terminal Moraine, Pyramid Harbor, on the Sound near the shore. Plants with few lateral branches.
Hedwigia ciliata, Ehrh., var. *leucophaea*, Schimp. Juneau.
Ulota crispa, Brid. Sheep Creek, near Juneau.
Ulota crispula, Brid. Sitka.
Tetraphis geniculata, Girgens. Salmon Creek, near Juneau, Sitka; very fine specimens.
Bartramia pomiformis, Hedw. Juneau, 3,000 ft.; also at Salmon Creek and Gold Creek Cañon, near Juneau.
Philonotis Macounii, Lesq. & James. Juneau 3,000 ft.; also a doubtful specimen from Gold Creek Cañon, near Juneau.
Philonotis fontana, Brid. Near the snow line, above the Basin, Juneau.
Philonotis fontana, Brid., var. *serrata*, Kind. On earth, Gold Creek Cañon, near Juneau. The variety not yet published, but kindly named by Mrs. Britton from the advance sheets of Macoun's Catalogue.
Webera nutans, Hedw. Salmon Creek, near Juneau, Loring; also at Nanaimo, B. C.
Webera cruda, Schimp. Gold Creek Cañon, near Juneau.
Webera commutata, Schimp. (?) Same locality.
Bryum pallens, Swartz. Douglas Island.
Bryum pseudotriquetrum, Schwægr. Nanaimo, B. C.
Bryum Juneau.
Mnium orthorrhynchum, Br. & Sch. (?) Salmon Creek, near Juneau.

- Mnium punctatum*, Hedw. Loring, Sitka, Salmon Creek, near Juneau ; near the snow line above the Basin, Juneau.
- Atrichum undulatum*, Beauv. Juneau.
- Pogonatum capillare*, Brid. Salmon Creek, near Juneau.
- Pogonatum contortum*, Lesq. Loring.
- Pogonatum alpinum*, Röhl. Juneau, 3,000 ft.; Salmon Creek, near Juneau ; also at Sheep Creek, near Juneau.
- Pogonatum urnigerum*, Beauv. Juneau, 3,000 ft.; also at Salmon Creek and Gold Creek Cañon, near Juneau.
- Polytrichum commune*, L. Loring, Sitka, Chilkat.
- Antitrichia curtipendula*, Brid. Sheep Creek, near Juneau.
- Climacium Americanum*, Brid. Sterile. Sheep Creek, near Juneau.
- Climacium Ruthenicum*, Lindb. Very fine fruiting specimens. Salmon Creek, near Juneau, and at Sitka.
- Hypnum (Camptothecium) lutescens*, Huds. Sheep Creek, near Juneau.
- Hypnum (Isothecium) myosuroides*, L. Loring.
- Hypnum (Plagiothecium) pulchellum*, Dicks. Above the Basin, near Juneau.
- Hypnum (Plagiothecium) denticulatum*, L. Sitka.
- Hypnum (Plagiothecium) undulatum*, L. Loring, Juneau, and also at Salmon Creek, near Juneau, Sitka.
- Hypnum (Harpidium) uncinatum*, Hedw. Juneau, 6,000 ? ft.; and at Salmon Creek and Gold Creek Cañon, near Juneau.
- Hypnum circinale*, Hook. At Salmon and Sheep Creeks, near Juneau.
- Hypnum subimponens*, Lesq. At Sheep Creek and at Gold Creek Cañon, near Juneau.
- Hypnum (Pleurozium) splendens*, Hedw. Loring, Sitka, Salmon Creek and Gold Creek Cañon, near Juneau.
- Hypnum (Hylacomium) loreum*, L. Sitka, Loring, Juneau, 3,000 ft.; Sheep Creek and Salmon Creek, near Juneau.

LICHENS.

- Cetraria glauca* (L.), Ach. Sheep Creek and Salmon Creek, near Juneau ; Sitka.
- Alectoria Fremontii*, Tuck. Salmon Creek, near Juneau, Sitka.
- Alectoria ochroleuca* (Ehrh.), Nyl., var. *sarmentosa*, Nyl. Salmon Creek and Sheep Creek near Juneau ; Sitka.
- Parmelia saxatilis* (L.), Fr. Sheep Creek, near Juneau.
- Parmelia physodes* (L.), Ach., var. *enteromorpha*, Tuck. Loring, Juneau, and at Sheep Creek, near Juneau ; Sitka.
- Parmelia physodes* (L.), Ach., var. *vittata*, Ach. Loring.
- Sticta pulmonaria* (L.), Ach. Salmon Creek, near Juneau.
- Sticta Oregana*, Tuck. Loring ; Sheep Creek, near Juneau.
- Sticta limbata* (Sm.), Ach. Sheep Creek and Salmon Creek, near Juneau.
- Nephroma tomentosum* (Hoffm.), Kærst. Salmon Creek, near Juneau.
- Peltigera aphthosa* (L.), Hoffm. Loring ; Sheep Creek, near Juneau.
- Peltigera polydactyla* (Neck.), Hoffm. Gold Creek Cañon, near Juneau.
- Peltigera canina* (L.), Hoffm. Nanaimo, B. C.; also specimens doubtfully referred to this from Salmon Creek, near Juneau.
- Leptogium tremelloides* (L. fil.), Fr. Salmon Creek, near Juneau.
- Lecanora elatina*, Ach., var. *ochrophaea*, Tuck. Sheep Creek, near Juneau.

Lecanora pallescens (L.), Schær. Sheep Creek, near Juneau.

Lecanora pallescens (L.), Schær., var. *rosella*, Tuck. Sheep Creek, Juneau.

Stereocaulon tomentosum (Fr.), Th. Fr. Sheep Creek, near Juneau; Davidson Glacier.

Pilophorus cereolus (Ach.), var. *acicularis*, Tuck. Juneau, 3,000 ft.; Salmon Creek and Gold Creek Cañon, near Juneau.

Cladonia mitrula, Tuck. Juneau.

Cladonia fimbriata (L.), Fr. Loring; also a doubtful form from Sheep Creek, Juneau.

Cladonia fimbriata (L.), Fr., var. *tubiformis*, Fr. Sheep Creek, Juneau.

Cladonia squamosa, Hoffm. Sheep Creek, Juneau; also at Nanaimo, B. C.

Cladonia rangiferina (L.), Hoffm. Salmon Creek and Sheep Creek, near Juneau.

Cladonia rangiferina (L.), Hoffm., var. *sylvatica*, L. Salmon and Sheep Creek, near Juneau.

Cladonia macilenta (Ehrh.), Hoffm. Loring.

Bæomyces æruginosus (Scop.), DC. Loring; Salmon Creek, near Juneau.

Heterothecium sanguinarium (L.), Flot. Juneau; also at Sheep Creek near Juneau.

Sphaerophorus globiferus (L.), DC. Loring; also at Salmon Creek, near Juneau.

My thanks are due to Mrs. Britton, for assistance in naming some of the mosses, and to Prof. A. B. Seymour, for his kindness in comparing some of the lichens in the Tuckerman Herbarium.

CLARA E. CUMMINGS.

An Enumeration of Some Rare North American Lichens.

BY DR. J. W. ECKFELDT.

The following list of species is intended to embrace some plants that are but little known to the botanists of North America, and in order to illustrate them better than by a simple list of names, I herewith give the general description from plants in my herbarium, hoping thereby to render them better understood by those who are pursuing the study of lichenology. The lichens, to which I have here referred, are all of the Graphidacei, with two exceptions. From the special interest that I have taken in these plants, I consider them worthy to be brought into notice for the benefit of those who may be collecting in the neighborhood where they were found.

PLACODIUM APHANOTRIPTA (Nyl.), Eck. Thallus effuse granulose, made up of very minute ascendant lobules, which are closely crowded into a uniform crust, supporting a delicate light blue hypothallus, grayish green, tending to a brighter yellow. Apothecia 0.5 mm., scattered, small and flattened, concave, mostly sunken or slightly raised above the surface of the thallus, the bright orange disk with a crenulate or wavy margin, which is